JC03 Rec'd PCT/PTO 1 4 MAY 2005

PTO-1390 (Rev. 02-2005) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER 8054-109 (LW8081 PC/US)

37 CFR 1.5)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMED INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. 9 December 2002 PCT/KR2003/002662 5 December 2003 TITLE OF INVENTIONTHIN FILM TRANSISTOR SUBSTRATE, METHOD OF MANUFACTURING THE SAME, LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME AND METHOD OF MANUFACTURING THE LIQUID CRYSTAL DISPLAY APPARATUS APPLICANT(S) FOR DO/EO/US Seong-Yong HWANG, Weon-Sik OH, Ju-Young YOON, Sung-Chul KANG Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. IXI The US has been elected (Article 31). \square A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). X has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. X is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 9. X An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 11. 🛛 An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. 16. L A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 19. L International Search Report 20.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Other items or information:

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| U.S. APPLICATION NO. / Gowy see (1975) INTERNATIONAL APPLICATION NO. PCT/KR2003/002662 | | | | | 8054-109 (LW8081PC/US) | | | |
|--|--|---|--|---|------------------------|---------------------------|-----------------|--|
| The following fees have been submitted | | | | | | CALCULATIONS PTO USE ONLY | | |
| The following fees have been submitted 21. Basic national fee\$300 | | | | | | 300.00 | | |
| 22. X Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | | 200.00 | | |
| 23. Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority | | | | | | 500.00 | | |
| TOTAL OF 21, 22 and 23 = | | | | | | 1,000.00 | | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | |
| Total Sheets | Extra Sheets | | additional 50 or fraction p to a whole number) | RATE | | | | |
| - 100 = | /50 = | | | x \$250 | \$ | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). | | | | | | | | |
| CLAIMS | NUME | SER FILED | NUMBER EXTRA | RATE | \$ | | T | |
| Total claims | | 18 - 20 = | 0 | x \$ 50 | \$ | 00 | | |
| Independent clai | ms | 4 -3= | 11 | × \$200 | \$ | 200.00 | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | | | 1,200.00 | | |
| Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | | 4.000.00 | | |
| SUBTOTAL = | | | | | \$ | 1,200.00 | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | | \$ | | | |
| TOTAL NATIONAL FEE = | | | | | \$ 1,200.00 | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | | | | | |
| TOTAL FEES ENCLOSED = | | | | | | \$ 1,200.00 | | |
| | | | | | | ount to be nded: | \$ | |
| | | | | | | ount to be rged: | \$ | |
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| b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | | | | | |
| c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0679 . A duplicate copy of this sheet is enclosed. | | | | | | | | |
| d. X Fees a be inc | re to be charged t | to a credit card. W. m. Provide credit o | ARNING: Information on this card information and authorize | form may become pu tion on PTO-2038. | blic. C | redit card informa | tion should not | |
| NOTE: Where a | n appropriate tir restore the inter | ne limit under 37 national Applicat | CFR 1.495 has not been me ion to pending status. | t, a petition to reviv | e (37 C | CFR 1.137(a) or (b) |) must be filed | |
| SEND ALL CORRESPONDENCE TO: | | | | | | | | |
| Frank Chau SIGNATUR | | | | | | | | |
| F. Chau & Associates, LLC Frank Chau | | | | | | | | |
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| | | | | REGISTRAT | ION N | UMBER | | |
| SORM RTC | 0-1390 (REV. 02-20) | 05) | Page 2 of | 2 | | | | |

Attorney Docket No. <u>8054-109 (LW8081PC/US)</u> **JC20 Rec'd PCT/PTO** 1 4 MAY 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Seong-Yong Hwang et al.

Int'l. Application No.:

PCT/KR2003/002662

Int'l. Filing Date:

5 December 2003

For:

THIN FILM TRANSISTOR SUBSTRATE, METHOD OF

MANUFACTURING THE SAME, LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME AND METHOD OF

MANUFACTURING THE LIQUID CRYSTAL DISPLAY

APPARATUS

Mail Stop PCT Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.10

I hereby certify that the below listed documents are being deposited with the United states Postal Service on this date May 13, 2005 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EV553756325US addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- 1. Transmittal Letter to the U.S. Designated Elected Office (DE/EO/US) Concerning a Filing under 35 U.S.C. 371
- 2. International Application as published
- 3. International Search Report
- 4. Information Disclosure Statement, Form PTO-1449 and cited references
- 5. Executed Declaration and Power of Attorney
- 6. Assignment Recordation Cover Sheet and 2 sheets of Assignment
- 7. Credit Card Payment Form PTO-2038 (2)
- 8. Certificate of Mailing
- 9. Return Postcard

Dated: May 13, 2005

Frank Cha

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